

final_linear.ct1

;Model Desc: base linear. age and temp

;Project Name: phnresubmit

\$PROB RUN# 6003

\$INPUT C ID Site TIME CPBT AMT RATE DV EVID WT PRIM CO AGE CUF MUFON MUF COAT CPBTOT
TEMP

\$DATA PK10.CSV IGNORE=C

\$SUBROUTINES ADVAN3 TRANS4

\$PK

IF (TIME.GT.CPBT) THEN
TVCL=THETA(1)*((WT/70))*(AGE/(THETA(9)+AGE))
CL=(TVCL)*EXP(ETA(1))
ELSE
TVCL=THETA(2)*((WT/70))
CL=(TVCL)*EXP(ETA(2))
ENDIF

IF (TIME.GT.CPBT) THEN
TVV1=THETA(3)*(WT/70)
V1=(TVV1)*EXP(ETA(3))
ELSE
TVV1=THETA(4)*((WT/70))*((TEMP/37)**THETA(10))
V1=(TVV1)*EXP(ETA(4))
ENDIF

IF (TIME.GT.CPBT) THEN
TVQ=THETA(5)*(WT/70)
Q=(TVQ)*EXP(ETA(7))
ELSE
TVQ=THETA(6)*(WT/70)
Q=(TVQ)*EXP(ETA(8))
ENDIF

IF (TIME.GT.CPBT) THEN
TVV2=THETA(7)*(WT/70)
V2=(TVV2)*EXP(ETA(6))
ELSE
TVV2=THETA(8)*((WT/70))
V2=(TVV2)*EXP(ETA(5))
ENDIF

S1=V1/1000

\$ERROR

Y = F + F*ERR(1)+ERR(2)

IPRE=F

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\$THETA

(0.0,6.31130E-01) ;[1-CL POST OP]
(0.0,1.23821E-02) ;[CPB CL]
(0.0,1.69133E+02) ;[V1 POST OP]
(0.0,1.32323E+02) ;[CPB V1]
(0.0,1.36028E-01) ;[Q POST OP]
(0.0,2.93710E+00) ;[Q CPB]
(0.0,8.52377E+01) ;[V2 POST OP]
(0.0,1.76032E+02) ;[CPB V2]
(0.0,1.40969E+00) ;[AGE]
(-10.0,-1.83344E+00) ;[TEMP CPBV1]

\$OMEGA BLOCK(4)

2.19106E-01 ;[P]
2.51499E-01 ;[P]
3.05764E+00 ;[P]
2.00414E-01 ;[P]
2.59184E-01 ;[P]
2.98225E-01 ;[P]
1.82774E-01 ;[P]
-1.80396E-01 ;[P]
2.84009E-01 ;[P]
6.96418E-01 ;[P]

\$OMEGA

3.63178E-01 ;[P] omega(5,5)
4.85695E-01 ;[P] omega(6,6)
1.14028E+00 ;[P] omega(7,7)
3.23764E-01 ;[P] omega(8,8)

\$SIGMA

2.83889E-02 ;[P] sigma(1,1)
7.77007E+00 ;[A] sigma(2,2)

\$EST METHOD=1 INTERACTION PRINT=1 MAX=99999 NSIG=3 SIGL=10 MSFO=7003.MSF NOABORT

\$COV

\$TABLE ID TIME CL V1 Q V2 PRED IPRE CWRES CPBT AMT RATE DV EVID WT PRIM CO
AGE CUF MUFON MUF COAT CPBTOT TEMP ETA1 ETA2 ETA3 ETA4 ETA5 ETA6 ETA7 ETA8

ONEHEADER NOPRINT FILE=7003.tab

\$TABLE ID CL V1 Q V2 PRED IPRE CWRES FIRSTONLY NOAPPEND NOPRINT FILE=7003.par

\$TABLE ID ETA1 ETA2 ETA3 ETA4 ETA5 ETA6 ETA7 ETA8 FIRSTONLY NOAPPEND NOPRINT
FILE=7003.eta